

1                   CLAIMS

1           1. A fan revolution speed control method comprising  
2 steps of:

3           detecting a temperature of a cooling target fluid, and  
4           controlling the fan revolution speed of a cooling fan  
5 of a cooling system for cooling said cooling target fluid  
6 so that:

7           when the flow rate of said cooling target fluid  
8 passing through said cooling system is high, the fan  
9 revolution speed of said cooling fan is controlled to  
10 achieve a target fan revolution speed in order to  
11 bring the detected temperature to the same level as a  
12 preset target temperature, and that

13           when the flow rate of said cooling target fluid  
14 becomes lower, the fan revolution speed of the cooling  
15 fan is controlled to achieve a new target fan  
16 revolution speed that is lower than said target fan  
17 revolution speed.

1           2. A fan revolution speed control method comprising  
2 steps of:

3           detecting a temperature of hydraulic oil in a  
4 hydraulic circuit, and

5           controlling the fan revolution speed of a cooling fan  
6 of an oil cooler that serves to cool the return oil from a  
7 hydraulic actuator so that:

8           when a lever for feeding hydraulic oil to said  
9 hydraulic actuator is being operated, the fan  
10 revolution speed of said cooling fan is controlled to  
11 achieve a target fan revolution speed in order to  
12 bring the detected temperature to the same level as a  
13 preset target temperature, and that

14                   when the lever is at a neutral position, during  
15                   which period supply of the hydraulic oil to said  
16                   hydraulic actuator is at standstill, the fan  
17                   revolution speed of said cooling fan is brought to a  
18                   new target fan revolution speed that is lower than  
19                   said target fan revolution speed.

1                   3. A fan revolution speed control method as claimed  
2 in claim 2, wherein:

3                   when reducing the engine speed of a pump driving  
4 engine in the hydraulic circuit for the period during which  
5 said lever is at said neutral position to a level lower  
6 than that for the period during which said lever is being  
7 operated, said new target fan revolution speed for the  
8 period during which said lever is at the neutral position  
9 is calculated by multiplying the fan revolution speed at  
10 that time by the ratio of the engine speed for the period  
11 during which said lever is at the neutral position to the  
12 engine speed for the period during which said lever is  
13 being operated.